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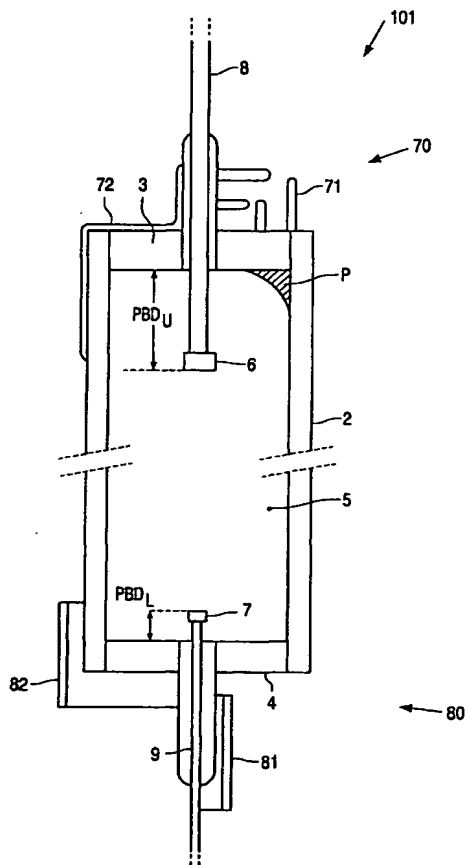
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[Continued on next page]

(54) Title: GAS DISCHARGE LAMP



(57) Abstract: A metal halide lamp (101) is described, the lamp being designed such that, when the lamp is operative in a vertical orientation, the location of the salt pool is close to the top of the discharge chamber (5). In an embodiment, the coldest spot is close to the top of the discharge chamber. Means are provided enabling more heat to be supplied to the bottom part than to the upper part. In a lamp assembly (10), comprising a lamp (101) arranged inside a bulb (11), additional heat generating means (90) may comprise a radiation coil (91).

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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,
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INTERNATIONAL SEARCH REPORT

International Application No

P 02/05738

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J61/82

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A A A	<p>US 2001/003411 A1 (KAWATBURU SHIGEHISA ET AL) 14 June 2001 (2001-06-14) paragraph [0169] figures 2,6</p> <p>-----</p> <p>EP 0 173 347 A (GTE PROD CORP) 5 March 1986 (1986-03-05) page 10, line 11 - page 12, line 19; figures 1,6,7</p> <p>-----</p> <p>GB 2 157 882 A (TUNGSRAM RESZVENYTARSASAG) 30 October 1985 (1985-10-30) page 2, line 9 - line 25 page 3, line 40 - line 49; figure 3</p> <p>-----</p> <p style="text-align: center;">-/--</p>	<p>1,2 3-15, 20-22</p> <p>1-15</p> <p>1,20-22</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 807 959 A (GEN ELECTRIC) 19 November 1997 (1997-11-19) page 5, line 9 - page 6, line 46 figure 2	1-15
A	figure 1; table 1 -----	4-15
A	US 5 083 059 A (SCOINS JOHN ET AL) 21 January 1992 (1992-01-21) column 5, line 1 - line 21; figure 3 -----	1
A	GB 1 337 134 A (GEN ELECTRIC) 14 November 1973 (1973-11-14) figure 5A -----	1
A	US 4 808 876 A (REILING GILBERT H ET AL) 28 February 1989 (1989-02-28) column 4, line 1 - line 19; figure 2 -----	1
A	US 6 246 170 B1 (SUGAWARA SABURO) 12 June 2001 (2001-06-12) abstract; figure 2 -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 02/05738

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15, 20-22

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15,20-22

Discharge lamp with a salt pool located near the top of the lamp when the lamp is operative in vertical orientation

2. claim: 16

Gas discharge lamp with electrodes of different material or thickness

3. claim: 17

Gas discharge lamp with a vessel having wall sections with different thickness or made of different materials

4. claims: 18,19

Gas discharge lamp having heat discharge or heat transfer inhibiting means located at one end of the discharge vessel

INTERNATIONAL SEARCH REPORT

Int. Application No
P 2/05738

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